

ABSTRACT OF THE DISCLOSURE

An objective of this invention is to prevent deterioration with time of a storage or calibration solution due to, for example, growth of microorganisms or bacteria. Another objective of this invention is to prevent deterioration of, for example, an enzyme or organic layer in an electrode coating of a sensor caused by a storage or calibration solution. Another objective of this invention is to prevent detachment of an organic layer in an electrode coating from an adjacent layer or electrode, caused by a storage or calibration solution. For achieving these objectives, a storage solution 23 and a calibration solution in a A sensor includes a substrate, comprising an enzyme electrode formed on the substrate, and a coating covering the electrode. The coating includes a permeation limiting layer which contains a fluorine and an adhesive material which contains 18 comprise an electrolyte, a pH buffering agent and a compound containing a heterocycle having nitrogen and sulfur heteroatoms adhering to the surface of the permeation limiting layer.